

SQUAD SPECIFICATIONS

Hudson, NH Fire Department
39 Ferry Street
Hudson, New Hampshire 03051

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Section 1 – Squad Specifications – Bidder Instructions

The following specification describes a new Squad that is expected to be acquired by this purchaser. The specification describes the needs of this purchaser as far as chassis configuration and module body design. A state of the art vehicle is required. However, manufacturers that utilize prototype equipment or manufacturing processes will not be considered. The builder's manufacturing history shall be supported by documentation where applicable, and by the reference section within this specification. However, most requirements in this specification exceed the federal specifications because of the specific needs of this purchaser.

Please note that the following specifications represent minimum general terms or requirements. While it is not the intent of this purchaser to preclude any qualified bidder from submitting a proposal it must be clear that any bidder deviating in any substantial manner from these specifications will be rejected as being non-compliant.

Finally, manufacturers or distributors for manufacturers submitting bids shall include the following information with their proposal:

Minimum Required Standards

The highest degree of quality, both in the materials and in the building processes, is required for the emergency vehicle being proposed. At a minimum the vehicle being proposed must meet all current NFPA standards in effect at the date of the proposal submission. All current Federal Motor Vehicle Safety Standards (FMVSS) must be met.

The manufacturer shall also comply with the manufacturer's company Quality Vehicle Manufacturer (Quality Vehicle Manufacturer (QVM)) program. A copy of the manufacturer's current QVM certification must be submitted with the bid.

- The current QVM certification is included.

Yes ☐

No ☐

Initial : _____

Proposal Completion Process

Various areas in the following specifications require a response from the bidder. In order to aid in the evaluation process all responses must be consistent and, most importantly, legible.

- Does the bidder understand this requirement?

Yes ☐

No ☐

Initial : _____

Quotation

The overall quotation shall include a firm price for a vehicle meeting these specifications. The length of time that the price will be held shall be clearly stated in the quotation. The quotation shall include a specific delivery window based on the number of calendar days following the award of the contract. The model year of both the chassis and the conversion shall be clearly stated in the contract.

A penalty of (\$200.00) two hundred dollars per day shall be charged the bidder for any delay in delivery of the Squad. The actual date of delivery shall be determined and included in the final contract after the bid is awarded.

Warranty

The proposal shall include all warranties that are required in the following detailed specification. All warranties must have specific time durations and shall define warranties on specific components. The minimum acceptable warranty periods are noted below. In the blank lines the bidder shall note the terms of the warranties that apply to the manufacturer being proposed.

MODULAR BODY STRUCTURAL WARRANTY	30	Years /	Unlimited	Miles
Proposed warranty term :	<input type="text"/>	Years /	<input type="text"/>	Miles
<hr/>				
ELECTRICAL WARRANTY	5	Years /	40,000	Miles
Proposed warranty term :	<input type="text"/>	Years /	<input type="text"/>	Miles
<hr/>				
CONVERSION WARRANTY	1	Year /	Unlimited	Miles
Proposed warranty term :	<input type="text"/>	Years /	<input type="text"/>	Miles
<hr/>				
PAINT WARRANTY	5	Years /	Unlimited	Miles
Proposed warranty term :	<input type="text"/>	Years /	<input type="text"/>	Miles
<hr/>				

For verification of the completed warranty terms stated above the bidder must include printed manufacturer's warranty certificates that meet or exceed the minimum required periods stated above.

- Are the manufacturer's warranties included?

Yes ☐

No ☐

Initial : _____

Warranties shall not be pro-rated in any manner for their duration. All warranties shall be from the manufacturer as opposed to a distributor or service center. This is necessary for the protection of the purchaser, and to guarantee a certain known level of service and warranty. If, however, the bidder feels that it is necessary to modify the manufacturer's warranties, then the bidder shall state why this modification is necessary. In addition, the bidder shall provide a full descriptive warranty certificate describing the warranty modification and the fact that it takes specific precedence over the warranty offered by the manufacturer. If no such certificate is provided, then the modified warranty shall be considered invalid and the manufacturer's warranty shall remain in force. If a warranty modification is proposed through either a distributor or service center, then complete financial statements for that business covering the past five (5) years MUST BE SUBMITTED with the bid. If the manufacturer states that no party is permitted to modify its warranty, then any warranty modification provided by the bidder, despite being in writing, shall automatically be rejected.

- Does the bidder conform to the above-written section?

Yes ☐

No ☐

Initial : _____

Does the builder/dealer act as the warranty agent coordinating claims with the component builders?

Yes ☐

No ☐

Initial : _____

In order to simplify the evaluation process the following questions must be answered and this section must be initialed by the bidder.

- Are the warranties pro-rated in any manner?

Yes ☐

No ☐

Initial : _____

If 'yes' explain.

- Has the bidder modified the manufacturer's warranties?

Yes ☐

No ☐

Initial : _____

If 'yes' explain.

- If 'yes' was chosen above, has the bidder included modified written warranties?

Yes ☐

No ☐

Initial : _____

If 'yes' explain.

- If 'yes' was chosen above, has the bidder included financial statements, for the last five (5) years, of the warranty modifier?

Yes ☐

No ☐

Initial : _____

If 'yes' explain.

- Bidder shall initial that this section is understood and has been answered truthfully.

Yes ☐

No ☐

Initial : _____

NOTE

Bidders, who are found to be untruthful in this, or in any other section of this bid, will have their bid automatically rejected.

Owner's Manual/ Drawings/ Weigh Bill

An owner's manual shall be provided and consists of the following items:

- Chassis Warranty Card and Owner's Information
- Chassis Maintenance and Operating Tips
- Extra Set of Keys
- Care and Maintenance Instruction
- Climate Control Information and Warranty
- Schematic for Standard Systems:
 - Dual Battery and Charging System

Power Distribution and Terminal Board
 Front Switch Panel
 Rear Switch Panel
 Climate Control System
 Individual Circuit Diagrams for all Systems

- Alternator Warranty
- Conversion component Information
- Operations Manual
- Warranty and Parts List, Siren, Light bar, etc.
- 1 Set of hard copy Apparatus Service Manuals as well as CD format
- Weigh Bill **the slip shall be supplied by a Certified Weight Station.**

A weight slip shall be supplied with the BID. It shall show the TOTAL WEIGHT of a similar vehicle being bid.
Any manufacturer that does not comply will not be accepted.

Quotation

Service will be a major factor in the award of this proposal. Convenience and experience will be determining factors in defining acceptable service. Personnel performing the service shall be trained by the manufacturer with emphasis in the area of electrical service. In order to evaluate the proposed service facility the following information shall be provided on the appropriate lines.

Facility Name :			
Address :			
City :		State	
Contact :			
Phone number :			
Training description :			

Service: Pre-Delivery

Prior to delivery of the new vehicle to the customer, the dealer shall perform a complete "pre-delivery" inspection. The inspection shall include: chassis inspection and fluid level checks and adjustments. The dealer shall check for compliance to conversion specifications, equipment, and quality manufacturing. Any deficiencies shall be corrected. The vehicle interior and exterior shall be fully detailed. The customer shall perform a pre-delivery inspection.

Service Provider :

Above section bid exactly as written :	<input type="checkbox"/>
Section not provided	<input type="checkbox"/>
Bidder is offering an alternative to this section	<input type="checkbox"/>

Service: Post

After the vehicle has been delivered, placed in service, and 3,000 miles accumulated, the dealer shall perform a complete "post-delivery" inspection. The inspection shall include: chassis inspection, fluid level check, lubrication, front-end alignment and other adjustments. All electrical systems and accessories shall be inspected for proper operation. Doors, linkages, cabinets shall be inspected, adjusted and lubricated as needed. Pick-up and delivery of the vehicle shall be the responsibility of the dealer. The builder shall provide training of routine maintenance and repair to vehicle with particular attention to the electrical systems.

Service Provider :

Above section bid exactly as written :

Section not provided

Bidder is offering an alternative to this section

Engineering Support

Due to the complexity of the design of the vehicle, proposals will be accepted only from manufacturers that utilize well-defined engineering techniques. At a minimum these drawings shall include all exterior elevations, all interior views (4), and a plan view of the roof/ceiling. All options and elements required within these specifications shall be depicted on the prints. The purpose of this requirement is to assure this purchaser that vehicle proposals indeed meet the stated requirements as set forth in these specifications. Generic CAD drawings are not acceptable. The drawings, as submitted, shall accurately depict the exact vehicle that is being proposed. Bidders not including the required drawings will be considered non-responsive and will, therefore, be rejected.

- Are the required drawings included with this bid?

Yes

No

Initial :

Safety Certification

The verification of construction techniques used throughout the building process must be furnished by the manufacturer/bidder. Finally, a manufacturer is desired that has an ongoing testing program. The testing, as described above, shall be current and shall have been conducted on a continuous basis for a period of time.

- Who Tests:

Initial:

- What was the date of the last test:

Initial :

- Has this specified body construction method been tested?

Yes

No

Initial :

- If not, what body construction method was tested?

Initial :

- Has the testing program been in place for a period of at least ten (10) years?

Yes ☐

No ☐

Initial : _____

- If the program has not been in place for at least ten (10) years, then how long has the testing program been in place?

Initial : _____

- Does the bidder understand these requirements?

Yes ☐

No ☐

Initial : _____

References

The proven durability and reliability of this product is of the utmost concern. Each bidder submitting a proposal must furnish references consisting of in-service units of similar chassis make and conversion processes being proposed. All references shall include owner, address, contact name and phone number, and the model owned. A minimum of ten (5) references shall be provided:

(1)

Owner :
Address :
Contact :
Phone number :
Model : Year :

(2)

Owner :
Address :
Contact :
Phone number :
Model : Year :

(3)

Owner :
Address :
Contact :
Phone number :
Model : Year :

(4)

Owner :
Address :
Contact :
Phone number :

Model : Year :

(5)

Owner :
Address :
Contact :
Phone number :
Model : Year :

Liability

The bidder shall defend, indemnify, and save harmless the purchaser and its officials from all claims, demands, payments, suits, actions, recoveries, and judgments of every description, whether or not well founded in law, brought or recovered against it, by reason of any act or omission of said bidder, his agents or employees, in the execution of the contract or in consequence of insufficient protection or for the use of any patented invention by said bidder, and a sum sufficient to cover aforesaid claims may be retained by the purchaser from money due or to become due to the bidder under this contract, until such claims have been discharged or satisfactorily secured.

Each bidder must furnish a Certificate of Insurance showing aggregate total of insurance which shall not be less than five million dollars (\$5,000,000).

- Certificate of Insurance included with proposal?

Yes ☐ No ☐ Initial : _____

In addition, the bidder is to assume any risk of loss to the Squad until the Squad is delivered to this purchaser.

- Does the bidder understand this requirement?

Yes ☐ No ☐ Initial : _____

Payment

Payment shall be made on delivery of the purchased item, or upon completion of all work contracted for (whichever occurs later) and performed to the satisfaction of the purchaser. Bidder shall include information on payment options or alternatives that will result in a cost savings to the buyer.

- Does the bidder comply with this requirement?

Yes ☐ No ☐ Initial : _____

If 'no' explain.

Delivery Process

The vehicle shall be delivered over the road to the purchaser. Delivery shall be 180 days after award of contract. The purchaser has the right to reject the vehicle if it does not conform to these specifications.

- Does the bidder understand this requirement?

Yes ☐

No ☐

Initial : _____

Section 2 – Squad Specifications – Specification Design

The following specifications were created by the purchaser in order to best describe a need. However, it is not the intent of the purchaser to exclude any manufacturer from submitting a bid on these specifications. In many places required equipment or features are identified by brand name. The bidder shall note that the use of brand names within this document is meant to describe a required level of quality or performance. The bidder may substitute equipment or features provided that the substitutions meet the intent of the specification. The bidder shall note, however, that substitute components shall be included in the list of exceptions. Exceptions should be listed per the following bid completion requirements.

BID COMPLETION REQUIREMENTS:

- All proposals shall be submitted to:

Purchaser :	Town of Hudson				
Address :	12 School Street				
City :	Hudson	State :	NH	Zip Code :	03051
Attention	Town Clerk – Fire Department- Squad Proposal				
Proposal must be submitted by:					

- All proposals shall be submitted in a sealed envelope with the following information marked on the outside of the envelope: ***"Squad Proposal"***
- All proposals shall be submitted in a hard-bound binder. In order to facilitate evaluation, the binder shall be divided by header into the following minimum sections:
 - Proposal: Bidder's proposal showing product bid, model year, price, and delivery date.
 - Specification: Purchaser's advertised specifications completed as required.
 - Design: CAD generated drawings of both interior and exterior of the product being proposed.
 - Warranty: Complete written certificates of Modular, Electrical, Paint, and Conversion warranties.
 - Weight Bill

- Bidder's proposal meets all of the requirements listed above.

Yes ☐

No ☐

Initial : _____

Type of Bids to be Submitted

In the event that the bidder represents more than one Squad manufacturer meeting the manufacturer requirements outlined herein, then the bidder shall only bid the highest quality vehicle that the bidder represents. Under no circumstances will multiple bids from the same bidder on different manufacturers be accepted. Should a bidder submit two or more bids representing more than one manufacturer, then all bids submitted by that bidder will be rejected as being non-compliant with the requirements of this specification. This purchaser is seeking quality equipment. Bidders are asked to bid only the product of the highest level of quality represented by that bidder.

- Is this requirement understood and met?

Yes ☐

No ☐

Initial : _____

Information to be Submitted with Proposal

The information requested within this bid must be furnished in full. Any bidder not completing this proposal or not furnishing any required information will not be considered. If a bidder will not furnish a material or fabrication process exactly as described in this specification, then that difference must be designated in the list of exceptions. If a substitution is being proposed, then the bidder must note the section to which the alternative is being proposed and provide technical data, supporting the fact that the substitute is equal to or better than the item as specified. If this data is not submitted with the bid, then the bid shall be rejected as being non-compliant. Bidder added narrative describing a substitution as being a "clarification", "exceeding", being "equal to", etc. will not be accepted. Statements such as these, with or without the technical data described in this section, will cause the bid to be rejected as being noncompliant.

This purchaser reserves the right to require samples of any deviating material to be provided for evaluation.

- Does the bidder comply with these requirements?

Yes ☐

No ☐

Initial : _____

Directions for Responding to Each Section

Each individual section of the specification shall be followed by three (3) response lines. The lines shall read as follows:

Above section bid exactly as written :

☐

Section not provided

☐

Bidder is offering an alternative to this section

☐

On the line to the right of each statement the bidder shall mark an 'X' to signify the appropriate response. If a bidder is offering an alternative to the written section, then an exception must be taken for the section. The exception must be accompanied by data supported by documentation to demonstrate the equivalency of the alternate item. The bidder shall note that the data submitted must correspond with the substitutions offered. If the data submitted does not cover all substitutions offered, then the bid shall be rejected as being noncompliant.

- Does the bidder understand this requirement?

Yes ☐

No ☐

Initial : _____

Section 3 - Squad Specifications – Exceptions to Specifications

Exceptions to these specifications shall be noted below. All exceptions taken shall be recorded per the guidelines defined above. Each exception shall be noted by page number and item header. If additional space is required for exceptions, then the bidder shall use additional paper as necessary, however the same format shall be used.

Page # :

Header :

Exception :

Page # :

Header :

Exception :

Page # :

Header :

Exception :

Page # :

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Section 4 – Bidder's Requirements and Performance

Overview of Vehicle

The vehicle described herein shall be designed specifically as a light rescue and for on and off road brush and forest fire suppression. The truck shall consist of but not be limited to a commercial chassis modified to fit the application, a stainless steel body specifically designed for the fire service, a polypropylene tank, a water pump, and various customized compartment storage features. The unit shall be designed using the latest automotive design and construction processes. All components used, when available, shall be specifically designed for the automotive industry.

Above section bid exactly as written :

☐

Section not provided

☐

Bidder is offering an alternative to this section

☐

Quality and Workmanship

The design of the apparatus shall embody the latest approved automotive and emergency apparatus engineering practices. The workmanship must be of the highest quality in its respective field. Special consideration will be given to the following points: accessibility of the various components which require periodic maintenance operations; construction that is rugged and ample; safety parameters that are designed to carry loads as specified and to meet both on and off road requirements and speed conditions, as set forth under "Performance Test and Requirements"; welding employed in the assembly of the apparatus in a manner that will prevent the ready removal of any component part for service or repair; all steel welding shall be performed to American Welding Society D1.1-83 for structural steel welding; all aluminum welding shall be performed to American Welding Society and ANSI D1.2-83 for structural welding of aluminum.

Above section bid exactly as written :

☐

Section not provided

☐

Bidder is offering an alternative to this section

☐

Performance Test Requirement

A road test will be conducted and a continuous run of twenty-five (25) miles or more will be made under all driving conditions, during which time the apparatus shall show no loss of power or overheating. The transmission drive shaft or shafts and rear axles shall run quietly and be free from abnormal vibration or noise throughout the operating range of the apparatus. The apparatus, when loaded, shall not exceed the chassis manufacturer's maximum axle, suspension or tire and rim capacity.

Above section bid exactly as written :

☐

Section not provided

☐

Bidder is offering an alternative to this section

☐

Materials

Materials shall conform to the specifications listed herein. When not specifically listed, materials shall be of the best quality for the purpose of commercial practice. Materials shall be free of all defects and imperfections that might affect the serviceability of the completed apparatus.

Above section bid exactly as written :

☐

Section not provided

☐

Bidder is offering an alternative to this section

☐

Pre-Construction Conference

Immediately after notification of contract award, the successful bidder shall schedule a pre-construction conference at the factory for three (3) appointed representatives of the purchaser who shall be accompanied by a Sales Representative. The conference shall be held not later than 30 days after notification. The contractor shall present a set of final engineering construction drawings and the specifications outlines herein. Should the purchaser deem that the contractor has not properly interpreted the specifications or does not intend to manufacture the emergency vehicle as specified, appropriate corrective actions shall be agreed upon and the conference shall be re-scheduled. Should the purchaser determine, at the second conference, that the contractor remains unable to meet the intent of the specification; the contract may be deemed null and void.

Above section bid exactly as written :

☐

Section not provided

☐

Bidder is offering an alternative to this section

☐

Final Inspection

A final inspection will be conducted at the factory for three (3) appointed representatives of the purchaser who shall be accompanied by a Sales Representative. The unit shall receive a final check for accuracy with the specifications.

Upon delivery and acceptance of the vehicle at the Town of Hudson, a certified check for the final amount due of the contract payable to _____ will be provided to the dealer before the vehicle is released to the customer. The warranty time period for all items added by the body builder shall begin at that time.

Above section bid exactly as written :

☐

Section not provided

☐

Bidder is offering an alternative to this section

☐

Modification of Contract

Throughout the course of the project, it may be desired to modify or change a particular or multiple features that would be contradictive of the contract specifications. Any changes must be fully documented including a full description of the change, reference number of the contract specification that the change pertains to, if applicable, and the cost associated with the change. The delivery date

as noted in the bid may be affected. In the situation where parts need to be ordered for the change or if the change adds labor to the project, the penalty clause will be null and void.

Above section bid exactly as written :	<input type="checkbox"/>
Section not provided	<input type="checkbox"/>
Bidder is offering an alternative to this section	<input type="checkbox"/>

Service

The successful bidder shall maintain an authorized service center within 75 miles of the fire department. The authorized service center shall employ Fire Apparatus Technicians to insure the customer that competent and qualified service will be provided. The service center shall maintain a fully-enclosed, fire-sprinkler protected and security alarmed maintenance facility and shall also provide mobile service vehicles to allow repair of apparatus at the fire department's location. The service center shall stock a supply of commonly used replacement parts, such as valves, primers, door latches, gauges, that may fail while this unit is in warranty. This shall ensure the customer prompt service on any warranty problem.

Above section bid exactly as written :	<input type="checkbox"/>
Section not provided	<input type="checkbox"/>
Bidder is offering an alternative to this section	<input type="checkbox"/>

Training

The dealer shall complete one, training session as directed by the fire department. This training will be specifically applicable to the Training and Fleet Maintenance Divisions of the Hudson, NH Fire Department. The trainings shall be at a time and date mutually agreeable to by both the trainer and fire department.

Above section bid exactly as written :	<input type="checkbox"/>
Section not provided	<input type="checkbox"/>
Bidder is offering an alternative to this section	<input type="checkbox"/>

Performance Dimensions and Data

- | | |
|---|--------------------------|
| A. Wheelbase of chassis: | 176" |
| B. Cab to axle dimension of chassis: | 60" |
| C. Maximum length of apparatus (Ford crew cab chassis): | 24' |
| D. Overall length of apparatus body (excluding rear steps): | 118" |
| E. Overall apparatus width (excluding mirrors): | 96" |
| F. Maximum height of apparatus (empty): | 98" |
| G. Minimum rear angle of departure: | approximately 20 degrees |

Above section bid exactly as written :	<input type="checkbox"/>
Section not provided	<input type="checkbox"/>
Bidder is offering an alternative to this section	<input type="checkbox"/>

Proposal Drawing

See drawings included in this bid package.

Above section bid exactly as written :

☐

Section not provided

☐

Bidder is offering an alternative to this section

☐

Section 5 – Chassis Specifications

Chassis Specifications

2014 Ford F-550 Chassis
4x4 SD Crew Cab 176" WB DRW XL
Powerstroke 6.7L V-8 OHV diesel engine
200 amp extra heavy duty alternator
750 amp (total) 78 amp hours (Ah) (total) battery dual batteries with run down protection
Engine block heater
6-speed electronic Select-Shift automatic transmission with overdrive
Part-time four-wheel drive with electronic transfer case shift, auto locking hubs
4x4 Electronic-shift-on-the-fly with rotary dash switch
Limited slip differential, driveline traction control
4.88 axle ratio
Stainless steel exhaust
4-wheel disc brakes with front and rear vented discs
4-wheel anti-lock braking system
Front and rear anti-roll bar
HD front coil springs
HD rear leaf springs
19.5" x 6.00" argent steel wheels
LT225/70SR19.5 All-Terrain front and rear tires
Full-size steel spare wheel
Dual airbags
Air conditioning
AM/FM stereo, clock, seek-scan, 2 speakers
Power door locks, key fob (front doors) keyless entry
Two (2) 12V DC power outlets, retained accessory power
Analog instrumentation display includes tachometer, engine temperature gauge, turbo-boost gauge, transmission fluid temp gauge, engine hour meter, exterior temp, systems monitor, trip odometer
Warning indicators include oil pressure, engine temperature, battery, lights on, key, low fuel, door ajar, service interval, brake fluid level
Operator Commanded Regeneration Switch – for driver controlled exhaust regeneration
Steering wheel with tilt and telescopic adjustment
Power windows
Variable intermittent front windshield wipers
Full overhead console with storage, glove box, front cup holder, instrument panel bin, driver and passenger door bins and rear door bins
Four (4) upfitter switches

Seating capacity of six (6), 40-20-40 split-bench front seat with adjustable head restraints, center armrest with storage
 60-40 folding rear split-bench seat with fold-up cushion
 Vinyl faced front seats with vinyl back material
 Vinyl faced rear seats with carpet back material
 Full vinyl / rubber floor covering
 One (1) skid plate, side impact door beams
 Fully galvanized steel body material
 Black fender flares
 Black grille
 Four (4) doors
 Trailer harness, brake controller
 Driver and passenger power remote black trailer mirrors with turn signal indicators
 Front black bumper with front tow hooks
 Aero-composite halogen headlamps
 Clear coat paint: F1 Ford Red

Above section bid exactly as written : ☐
 Section not provided ☐
 Bidder is offering an alternative to this section ☐

Dimensions and Capacities

- A. GVWR 19,500 lbs.
- B. Front GAWR 7,000 lbs.
- C. Rear GAWR 14,706 lbs.
- D. Front axle capacity 7,000 lbs.
- E. Rear axle capacity 14,706 lbs.
- F. Front spring rating 7,000 lbs.
- G. Rear spring rating 15,000lbs.

Above section bid exactly as written : ☐
 Section not provided ☐
 Bidder is offering an alternative to this section ☐

Warranty

- A. Basic 36 month / 36,000 miles
- B. Power train 60 month / 60,000 miles
- C. Corrosion perforation 60 month / unlimited mileage
- D. Diesel engine 60 month / 100,000 miles

Above section bid exactly as written : ☐
 Section not provided ☐
 Bidder is offering an alternative to this section ☐

Section 6 – Chassis Modifications

Plate – “Warning Occupant Must be Seated and Belted”

A safety warning label shall be installed in a conspicuous location on the cab dash visible to driver and all passengers. It shall have a written warning as follows: “WARNING – Occupants must be seated and belted when apparatus is in motion.” In addition, there shall be a seating occupancy label installed visible to the driver, indicating number of personnel the vehicle is designed to carry.

Above section bid exactly as written :

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Section not provided

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Bidder is offering an alternative to this section

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Plate – “Chassis Fluids”

A label shall be installed in the cab or on the body that indicates the fluid types and capacities as required by the chassis manufacturer. They shall include: fuel type and capacity, oil type and capacity, anti-freeze type and capacity, transmission fluid type and capacity, transfer-case fluid type and capacity, differential fluid type and capacity and tire pressure for front and rear tires.

Above section bid exactly as written :

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Section not provided

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Bidder is offering an alternative to this section

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Plate – Overall Apparatus Height Warning

A minimum 3” wide x 1-1/2” high red plate with white letters shall be prominently displayed on the center of the cab dash that displays the overall unloaded height at the highest point on the apparatus. It shall read “WARNING – (empty clearance height at time of delivery) CLEARANCE.”

Above section bid exactly as written :

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Section not provided

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Bidder is offering an alternative to this section

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Rear Mud Flaps

A pair of heavy duty black soft rubber mud flaps shall be bolted to the left and right rear fender liners behind the rear wheels. The mud flaps shall be supplied and installed by the body builder. The mud flaps shall not interfere with the exhaust tail pipe or other chassis components that may damage them.

Above section bid exactly as written :

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Section not provided

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Bidder is offering an alternative to this section

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Rear Tow Points

A pair of heavy-duty painted steel tow eyes, each rated at 10,000 lbs. capacity, shall be bolted to the left and right outside drop frame extension rails. The eyes shall be rated for pulling only, not lifting. The eyes shall be designed to permit application of chains for direct pulls.

Above section bid exactly as written :

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Section not provided

☐

Bidder is offering an alternative to this section

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Frame Extension

The rear chassis frame shall be extended to properly support the body, trailer hitch and tow eyes. A full "C" section of frame with a cross section equal to the truck chassis shall be welded to the rear of the chassis. The chassis shall be repainted in this area once all welding and grinding is complete.

Above section bid exactly as written :

☐

Section not provided

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Bidder is offering an alternative to this section

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Tubular Cab Side Steps

Front cab stainless steel running boards shall be installed on each side. They shall run the entire length of each side of the front cab. Diamond Plate step ups on each side will not be accepted. An aluminium mud guard should also be installed in front of each running board. Lights shall be installed to illuminate the board, upon opening doors.

Above section bid exactly as written :

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Section not provided

☐

Bidder is offering an alternative to this section

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Section 7 – Bumpers and Hitches

Rear Trailer Hitch

- A. A trailer hitch receiver that can be rated as Class III shall be installed beneath the rear bumper directly to the chassis frame rail extensions. It shall be rated at not less than 10,000 lbs. gross trailer weight with a 500 lb. vertical load capacity. A universal RV type seven (7) functions, weatherproof receptacle shall be installed near the hitch. It shall be located so it is not damaged during off-road operations.
- B. Two (2) loop / rings shall be provided to securely attach the safety chains of the trailer being towed.
- C. An adapter to convert this receptacle to a four (4) way flat trailer plug shall be supplied with the vehicle which shall be kept in the glove box.

Above section bid exactly as written :

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Section not provided

☐

Bidder is offering an alternative to this section

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Section 8 – 12 Volt Electrical System

Electrical System Overview

- A. The electrical system shall be of a standard hard wired 12 volt solid state type. Multiplex wiring of any type used in the added electrical system shall not be acceptable.
- B. The manufacturer shall design the wiring system for the apparatus in accordance to the SAE, Society of Automobile Engineers.
- C. The manufacturer shall determine the circuit loads and design the system to accommodate these loads with appropriate circuit routings and relays.
- D. The wire shall be of sufficient size so that the voltage drop in any electrical device shall not exceed 10%.
- E. All wiring harnesses shall be properly secured and routed. All passages required for routing shall use grommets and sealed as required.
- F. All wiring shall be SAE J1128 and SAE J1292 GXL type wire, as per fire industry standards. All circuits shall be provided with properly rated low voltage over current protective devices of the manual reset type.
- G. The wiring harnesses shall be pre-engineered for correct circuit loading and shall be custom made. The individual wires shall be function imprinted and color-coded and shall be fitted inside automotive high temperature loom.
- H. Independent circuits shall serve all apparatus body electrical equipment, separate and distinct from the vehicle chassis circuits. Manual reset circuit breakers shall be provided at the electrical box will be located at the time of construction. A wiring diagram for this specific fire body and emergency lighting will be provided at delivery.
- I. Where wire passes through sheet metal, rubber grommets shall be used to protect both wiring and wire looms.
- J. Primary wiring harnesses shall be bench assembled. Where crimp connections are necessary, the connections shall be made using AMPS or equal connectors with heat-shrink insulators.

Above section bid exactly as written :

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Section not provided

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Bidder is offering an alternative to this section

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Battery System

The body builder shall install a 300 amp battery power cut-off switch that disconnects all battery power to the electrical components added to the cab and chassis. When the key of the vehicle is in the "OFF" position, all 12 volt power is cut to all circuits. A single green indicator light located in the console shall indicate the status of the battery power circuit. It shall be activated anytime the master switch is in the "ON" position to alert the operator of the status of the battery switch. Location of the switch shall be determined at the time of the pre construction meeting.

Above section bid exactly as written :	<input type="checkbox"/>
Section not provided	<input type="checkbox"/>
Bidder is offering an alternative to this section	<input type="checkbox"/>

Battery Conditioner

A Kussmaul Auto Charge 1000 20 amp battery conditioner shall be provided to maintain proper battery charge levels while plugged into a 120 volt power source. A Kussmaul display shall be provided to show the current charge level of the battery system as charged. The exact location of the charge indicator and the charger to be determined at the preconstruction meeting.

Above section bid exactly as written :	<input type="checkbox"/>
Section not provided	<input type="checkbox"/>
Bidder is offering an alternative to this section	<input type="checkbox"/>

Shorepower Inlet

- A. There will be a 20-amp shoreline Super Auto Eject plug located on the driver's side of the body, exact location will be determined at the pre construction meeting. The Super Auto Eject receptacle shall be triggered by the ignition in the momentary start position and shall eject the plug from the receptacle. The electrical inlet will include a spring-loaded cover to prevent water from entering the receptacle when the shoreline is not connected. The unit will be completely sealed to prevent contamination of the mechanism, insuring long life.
- B. The electrical receptacle will be wired directly, with no protection, to the battery and to electrical devices with no less than 10-gauge wire that is properly supported and shielded from damage and fraying.

Above section bid exactly as written :	<input type="checkbox"/>
Section not provided	<input type="checkbox"/>
Bidder is offering an alternative to this section	<input type="checkbox"/>

Engine Automatic High Idle

The engine shall be equipped with an electronically controlled device that automatically increases the engine RPM level on demand. This system shall monitor the charging system and raise the engine RPM as required to maintain the outgoing electrical load. A switch labeled "high idle" on the dash shall provide the activation of this feature.

Above section bid exactly as written :	<input type="checkbox"/>
Section not provided	<input type="checkbox"/>
Bidder is offering an alternative to this section	<input type="checkbox"/>

12VDC Voltage Output Testing and Documentation

The apparatus low voltage system shall be tested and certified by the manufacturer prior to final delivery. A copy of the testing and successful completion will be provided to the fire department.

Above section bid exactly as written :	<input type="checkbox"/>
Section not provided	<input type="checkbox"/>
Bidder is offering an alternative to this section	<input type="checkbox"/>

Reserve Capacity Test

The unit shall be run until all engine and engine compartment temperatures are stabilized and the battery system is fully charged. The engine shall be shut off and the minimum continuous electrical load shall be activated for ten (10) minutes. All electrical loads shall be shut off after ten (10) minutes and the battery system shall then be capable of restarting the engine.

Above section bid exactly as written :	<input type="checkbox"/>
Section not provided	<input type="checkbox"/>
Bidder is offering an alternative to this section	<input type="checkbox"/>

Alternator Performance Test

The high idle switch shall be in the on position. Minimum continuous electrical load shall be activated while the apparatus is at idle speed. The battery system shall be tested to detect the presence of battery discharge current. The detection of battery discharge current shall automatically increase the engine RPM until the load is overcome. Should the electrical load not be overcome to where the engine RPM's stabilize, the test shall be considered a failure and corrective actions shall be employed.

Above section bid exactly as written :	<input type="checkbox"/>
Section not provided	<input type="checkbox"/>
Bidder is offering an alternative to this section	<input type="checkbox"/>

Cab Console

A console shall be installed on the floor transmission hump between the front seats that extends from the back side front of the seats to a point within 3" of the cab dash. It will accommodate the following items; switch panel(s) and or rocker switches, siren controls, applicable radio control head(s), arm rests, cup holders, map area and other electrical components. Location of all components will be determined at pre construction meeting.

Above section bid exactly as written :	<input type="checkbox"/>
Section not provided	<input type="checkbox"/>
Bidder is offering an alternative to this section	<input type="checkbox"/>

Section 9 – 12 Volt Lighting

D.O.T. Clearance and LED Marker Lights

The apparatus body shall be equipped with Whelen LED marker lights with chrome bezels. The side and rear of the body will be provided with reflectors. All lights and reflectors shall conform to D.O.T. and FMVSS minimums for such vehicles of this type. All marker lights shall be incorporated into the tail light circuit of the cab / chassis.

Above section bid exactly as written :

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Section not provided

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Bidder is offering an alternative to this section

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Tail / Stop Lights

There shall be two (2) Whelen LED 600 series tail and stop lights with chrome bezels located at the rear of the body in accordance with FMVSS 108.

Above section bid exactly as written :

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Section not provided

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Bidder is offering an alternative to this section

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Back-Up Lights

There shall be two (2) Whelen 600 series LED back-up lamps located at the rear of the body.

Above section bid exactly as written :

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Section not provided

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Bidder is offering an alternative to this section

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Back-Up Alarm

A back-up alarm rated at not less than 102 DBA shall be installed under the rear of the apparatus body that meets minimum requirements of NFPA 1906. It shall be automatically activated whenever the transmission is in the reverse mode of operation.

Above section bid exactly as written :

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Section not provided

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Bidder is offering an alternative to this section

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LED Compartment Lights

There shall be two (2) LED compartment light strips in each compartment. Each of the lights shall be mounted to the wall of the compartment. LED lights should be blue in color when illuminating the compartment areas.

Above section bid exactly as written :

Section not provided

Bidder is offering an alternative to this section

Compartment Open Warning and Automatic Light Activation

Each compartment light shall be automatically activated when the door is opened in that compartment. A red light located on the console in the cab shall illuminate when any door is open. The compartment lights shall have power only when the key is on.

Above section bid exactly as written :

Section not provided

Bidder is offering an alternative to this section

Cab Step Lights

A total of two (2) LED ground / step lights shall be installed, one each side, beneath the left and right cab doors. They shall be activated whenever any of the cab doors are opened or when a switch on the cab console is activated.

Above section bid exactly as written :

Section not provided

Bidder is offering an alternative to this section

Under Body / Cab Ground Lights

There shall be four (4) LED shock mounted ground lights installed under the body. They shall be mounted in the following locations:

- One (1) each side forward of left and right rear wheels
- One (1) each side aft of left and right rear wheels each at a 45 degree angle

They shall be activated by the "compartment light switch" located on the console in the cab of the vehicle.

Above section bid exactly as written :

Section not provided

Bidder is offering an alternative to this section

Auxiliary Red / Clear Cab Dome Light

The two (2) switched interior courtesy lights shall be red in addition to the Ford center dome light activated by the dash switch or open door circuit. These lights shall provide ample light to read map books, etc. while in route without impeding the driver's ability to see while driving.

Above section bid exactly as written :

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Section not provided

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Bidder is offering an alternative to this section

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12 Volt Scene Lighting

Two (2) Whelen PFA2POL extendable lights shall be mounted on the front of the body. Two (2) Whelen PFA2R15 fixed lights shall be recessed into the upper body side in the center of the body length. The lights shall be powered from the four (4) switches located on the console. Exact location of switches shall be determined at the pre construction meeting. Labels shall be located over each switch and labeled "front flood left," "front flood right," "left side flood," "right side flood" and "side floods."

Above section bid exactly as written :

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Section not provided

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Bidder is offering an alternative to this section

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NFPA Optical Warning Devices

The apparatus shall comply with the requirements of the latest edition of NFPA 1906, "Optical Warning Devices." The flashing pattern and sequencing shall be fully compliant with this standard. All lights shall function in the "Calling for Right of Way" mode. Designated upper one "A" lights and auxiliary lighting specified herein shall be disabled in the "Blocking Right of Way" mode. "Blocking" mode shall be automatically activated whenever the transmission is placed in the park position. The following lights shall be provided:

Upper Zone A, B and D Warning Lights – Light Bar

- A. A Whelen EDGE Ultra-Freedom II Series Super LED 60" light bar with 9592 Opticom emitter, flashing take down lights and alley lights left and right shall be installed. The light bar shall be installed on the cab roof with brackets specifically designed for the cab roof installation. It shall provide the proper lighting per NFPA 1906 for the upper zone's A, B and D. Lenses for warning lights shall be clear.
- B. Any white front facing lights shall not operate when the vehicle's transmission is in park. The light bar shall have four (4) switches to control the lights:
 - 1) Warning
 - 2) Take down
 - 3) Alley left
 - 4) Alley right

Above section bid exactly as written :

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Section not provided

☐

Bidder is offering an alternative to this section

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Lower Zone A Front Cab and Zone B and D Warning Lights

Two (2) forward facing Whelen 600 series red LED's shall be located on the front bumper of the vehicle. Two (2) Whelen 600 series lights in contoured bezels shall be located in the side of the front bumper to provide side intersection warning. Two (2) Whelen 600 series lights shall be located in the forward wheel panel area. The lenses for the lights shall be clear in color and shall satisfy the requirements of NFPA 1906 for lower zone A and lower zone B and D.

Above section bid exactly as written :	<input type="checkbox"/>
Section not provided	<input type="checkbox"/>
Bidder is offering an alternative to this section	<input type="checkbox"/>

Lower Zone Rear Body Zone C Warning Lights

Two (2) Whelen 600 series red LED lights shall be located on the lower rear body of the vehicle. These two (2) lights shall provide rearward emergency lighting. The lenses for the lights shall be clear in color and shall satisfy the requirement of NFPA 1906 for lower zone C.

Above section bid exactly as written :	<input type="checkbox"/>
Section not provided	<input type="checkbox"/>
Bidder is offering an alternative to this section	<input type="checkbox"/>

Zone B and D Side Body Warning Lights

There shall be a total of two (2) side warning lights located at the rear side of the body. They shall be Whelen 600 series LED lights with clear lenses. They shall be recessed into the side of the body and shall satisfy the requirements of NFPA 1906 for upper zones B and D.

Above section bid exactly as written :	<input type="checkbox"/>
Section not provided	<input type="checkbox"/>
Bidder is offering an alternative to this section	<input type="checkbox"/>

Upper Zone C Warning Lights

There shall be a total of two (2) upper warning lights located at the upper rear area of the body. They shall be Whelen 900 series LED lights with clear lenses. The lights shall be ½ red ½ amber over under style lights. They shall satisfy the requirement of NFPA 1906 for lower zone C.

Above section bid exactly as written :	<input type="checkbox"/>
Section not provided	<input type="checkbox"/>
Bidder is offering an alternative to this section	<input type="checkbox"/>

Wig Wag Headlights

The chassis headlights shall be wired to allow them to alternately flash the high beam of each headlight. This shall be controlled in the cab.

Above section bid exactly as written :	<input type="checkbox"/>
Section not provided	<input type="checkbox"/>
Bidder is offering an alternative to this section	<input type="checkbox"/>

Electronic Siren

Federal E-Q2B siren control will be installed on the console in the cab and shall be convenient to the driver. It shall feature manual, yelp, wail, air horn and siren modes and have a manual override switch. A noise-cancelling microphone shall be provided.

Above section bid exactly as written :	<input type="checkbox"/>
Section not provided	<input type="checkbox"/>
Bidder is offering an alternative to this section	<input type="checkbox"/>

Siren Speakers

Two (2) CPI 100 watt speakers shall be mounted one (1) each into the front bumper. Mounting location shall be determined at the pre construction meeting.

Above section bid exactly as written :	<input type="checkbox"/>
Section not provided	<input type="checkbox"/>
Bidder is offering an alternative to this section	<input type="checkbox"/>

Section 10 – Body Construction and Dimensions

Body Construction

The following specifications are meant to be minimum requirements established for the manufacture and delivery of a vehicle supporting emergency incidents, as outlined herein. Exceptions will not be permitted. The body construction shall be of a proven design with an excess of 20 years of successful fire service use. The apparatus body shall be a hinged side door fully enclosed type. The body shall be specifically fabricated for severe off-road emergency service usage. Commercial grade bodies not specifically designed and constructed for the fire and rescue service shall be unacceptable.

Above section bid exactly as written :	<input type="checkbox"/>
Section not provided	<input type="checkbox"/>
Bidder is offering an alternative to this section	<input type="checkbox"/>

Body Mounting Requirements

An independent custom structural stainless steel sub-frame supports the body. The sub-frame floats independent of the chassis frame.

The sub-frame is designed for emergency service application by using Stainless steel structural tubing. It provides each compartment with total support to prevent the body from prematurely cracking under the extreme conditions common to the emergency service field.

The body is held in position by the U-Bolt method recommended and approved by the chassis manufacturer.

Above section bid exactly as written :

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Section not provided

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Bidder is offering an alternative to this section

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Construction – Stainless Steel Only

The body shall be a lightweight, corrosion-resistant body designed for emergency service application. The body will be bolted Marine Grade #4 304 Stainless Steel to give the product superior strength and dependability. The unit will be designed with a 60" cab to axle to provide excellent maneuverability and flexibility.

FRONT BODY PANELS:

The front of the body is to be manufactured from #4 304 stainless steel

REAR BODY PANELS:

The rear of the body is to be manufactured from #4 304 stainless steel for ease of maintenance.

ROOF OF THE APPARATUS:

The roof of the apparatus body shall be manufactured of .125 aluminum treadplate. The treadplate roof shall break over the sides 2".

STAINLESS STEEL WHEEL WELLS:

The rear wheel housing shall be constructed of #4 304 stainless steel material, which shall incorporate a polished stainless steel fenderette. The circular interliner shall be manufactured of 3/16" Tivar 1000 polymer material.

The wheel well shall be a bolt in wheel well assembly for ease of maintenance in the apparatus.

The polymer material is a chemical and corrosion resistant material, thereby preventing excess wear and corrosion from occurring due to wintertime road chemicals. The polymer material shall be held in place by the use of polymer retainers or bolts for ease of repair and access to the wheel well area.

Plastic bodies or single wall construction bodies shall not be acceptable.

Above section bid exactly as written :

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Section not provided

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Bidder is offering an alternative to this section ☐

Compartments

The compartments are to be constructed of Stainless Steel #4 finish stainless steel for longevity and dependability.

The compartments shall be bolted sweep out design for ease of cleaning. After construction the compartment seams shall be seam sealed to give the compartment a contiguous design throughout the apparatus system

The compartment tops are to be covered with aluminum treadplate. Each compartment top shall support 500 lb. of weight (Both sides to have a combined total of 1000 lb. of weight carrying capacity). The compartment top area shall be coated with a Tectyl material prior to final assembly to act as a barrier and to prevent corrosion.

Above section bid exactly as written : ☐

Section not provided ☐

Bidder is offering an alternative to this section ☐

Road Side (Left)

LEFT SIDE:

L1

A single door compartment assembly with a door opening of 28" wide x 52" high x transverse deep shall be provided ahead of the rear wheels on the left side.

L2

A lift-up door compartment assembly with a door opening of 41" wide x 27" high x 21" deep shall be provided over the rear wheels on the left side.

L3

A single door compartment assembly with a door opening of 28" wide x 52" high x 21" deep shall be provided behind the rear wheels on the left side.

Curb Side (Right)

RIGHT SIDE:

R1

A single door compartment assembly with a door opening of 28" wide x 52" high x transverse deep shall be provided ahead of the rear wheels on the right side.

R2

A lift-up door compartment assembly with a door opening of 41" wide x 27" high x 21" deep shall be provided over the rear wheels on the right side.

R3

A single door compartment assembly with a door opening of 28" wide x 52" high x 21" deep shall be provided behind the rear wheels on the right side.

REAR AREA:

The rear area shall remain open for general storage. The area shall be approximately 48" wide x 86" deep.

COMPARTMENT LAYOUT:

The compartment interiors shall be as follows:

L1:

Unistrut Tracking

One (1) full depth adjustable shelf (ves)

One (1) stokes basket storage rack.

L2:

Unistrut Tracking

L3:

Unistrut Tracking

Three (3) full depth adjustable shelf (ves)

One (1) up to 21" deep Roll Out Drop Down Tray(s)

R1:

Unistrut Tracking

One (1) full depth adjustable shelf (ves)

Transverse items as previously specied from the opposite side (equipment racks, roll-out trays, etc.)

R2:

Unistrut Tracking

One (1) full depth adjustable shelf (ves)

One (1) up to 21" deep **adjustable** Roll Out Drop Down Tray(s)

R3:

Unistrut Tracking

One (1) PAC TRAC vertical pull out board(s).

There shall be no PAC brackets supplied with the apparatus.

Rear Payout Hose Tray

Two (2) hose trough's approximately 10" x 8" x 118" shall be mounted above the driver's side lower compartments from front to back and be closed in on the top. Each trough shall carry 200 ft of 1 ¾ DJ hose. The troughs interior shall be free of sharp edges or fasteners that may cause a snag in the hose. A diamond plate door at the rear shall secure the hose trays in the body. The compartment shall be weather tight.

Above section bid exactly as written :

Section not provided

Bidder is offering an alternative to this section

Backboard, Boston Rake and Trash Hook Storage Compartment

Provisions shall be made in the rear of the body to accommodate a standard backboard, a 6 ft Boston rake and a trash hook. This compartment shall be weather tight and shall have a flip up diamond plate door for access. The depth of this compartment shall be the full length of the body.

Above section bid exactly as written :

Section not provided

Bidder is offering an alternative to this section

Fuel Filler Housing

The stainless steel fuel filler housing shall be recessed into the left rear wheel well panel. It shall be provided with the Ford chassis and shall be designed to work with the fuel filler neck kit provided with the chassis. The hose shall be properly routed and fastened to the body to provide a negative slope from the fill point to the inlet to the fuel tank. The filler neck shall be properly grounded directly to the chassis frame rail. A label that reads "DIESEL FUEL ONLY" shall be provided at the filler cap area.

Above section bid exactly as written :

Section not provided

Bidder is offering an alternative to this section

Wheel Chocks

Two (2) ZICO model AC-2 wheel chocks complying with NFPA 1906 shall be provided. They shall be stored in appropriate hangers in front of the driver side rear tires.

Above section bid exactly as written :

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Section not provided

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Bidder is offering an alternative to this section

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Rubber Flooring

The floors of all six (6) compartments shall be fitted with rubber Tile modular floor tiles. The tiles shall be black in color. The edges of the tiles at the door opening shall be ramped and shall be yellow in color.

Above section bid exactly as written :

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Section not provided

☐

Bidder is offering an alternative to this section

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Rear Folding Steps

There shall be two (2) rear folding steps on the inside of the rear of the body for top access of the hose reel nozzle and hose beds.

Above section bid exactly as written :

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Section not provided

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Bidder is offering an alternative to this section

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Rear Step

There shall be an 8" deep, full width NFPA compliant step across the rear of the body. It shall be fabricated from .125" high bright non-slip embossed aluminum diamond plate.

Above section bid exactly as written :

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Section not provided

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Bidder is offering an alternative to this section

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Rub Rails

Under each compartment door there shall be a black polymer "rub rail" that is bolted in place on the side of the body. Each rail shall be spaced away from the body using plastic spacers to prevent corrosion of the body side. The rub rail shall not be welded to the body and shall be easily replaceable

Above section bid exactly as written :

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Section not provided

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Bidder is offering an alternative to this section

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Vents

Each compartment shall have a louvered vent installed to allow air movement within. The louvered vents shall be stainless steel and shall be located in the upper area of the compartments. The air flow area for each vent shall be a minimum of 16 square inches.

Above section bid exactly as written :

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Section not provided

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Bidder is offering an alternative to this section

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Section 11 – Compartment Doors and Door Hardware

Compartment Doors

BOX TYPE FLUSH DOOR CONSTRUCTION:

The side compartment doors shall be manufactured in a flush box design.

Each compartment door exterior shall be manufactured of 14 gauge smooth stainless steel and each interior shall be 1/8" (.125") aluminum treadplate. The door assembly shall be designed to prevent condensation buildup within the door interior. Insulation shall be installed between the inner and outer pans of each door.

Each door shall be supported with stainless steel piano hinges, 2" joint x 1/4" pin. Each hinge shall be bolted to the door perimeter and door casement with stainless steel bolts, thereby facilitating door replacement. The door openings shall have closed cell automotive type seals to prevent water and dirt entry.

There shall be a seal applied to the outer perimeter of the door and a secondary seal on the inner flange of each compartment. A seal shall be provided between any double door compartments.

COMPARTMENT DOOR LATCHING:

The compartment doors (either vertically hinged or swing up doors) shall be secured by a two-point latching system. The door handle shall consist of a stainless steel rotary D-ring latch. Each latch shall connect with a pair of strikers. The secondary door of any double door compartment shall also include a stainless steel D-Ring latch and striker system.

DOOR RETAINERS-DOUBLE SPRING SLIDE TYPE:

Each vertically hinged side compartment door shall be retained with stainless steel double spring slide type retainers (Hansen 5 EZ style). The retainers shall be designed to hold the door in the open position.

SWING UP DOOR RETAINERS-GAS SHOCKS:

Each swing up side compartment door shall be retained with Gas shocks that are designed to hold the door in the open position.

Above section bid exactly as written : ☐

Section not provided ☐

Bidder is offering an alternative to this section ☐

Section 12 - Shelves

Adjustable Shelf Track

The interior side walls of compartments R1, R2, R3, L1, L2 and L3 shall be provided with extruded aluminum adjustable shelf struts compatible with standard strut hardware. The channels extend to within 6" off the top and bottom of the door opening. There will be a minimum of four (4) channels in each vertically hinged exterior compartment, unless specified otherwise herein. The shelves shall be adjustable using standard tools.

Above section bid exactly as written : ☐

Section not provided ☐

Bidder is offering an alternative to this section ☐

Shelving

All specified shelving shall be constructed of not less than 1/8 3003-H14 aluminum with a minimum 200 lb. equalized weight rating for each shelf. They shall have a minimum of 2" downward facing flange on the inner and outer edges. There shall be a total of five (5) adjustable shelves provided in the following compartments as follows: L1 (1 each), L3 (3 each), R3 (1 each).

Three (3) rollout/dropdown adjustable trays shall be provided final location to be determined by the Hudson Fire Department.

One (1) Swing out tool board will be provided location to be determined by the Hudson Fire Department.

Above section bid exactly as written : ☐

Section not provided ☐

Bidder is offering an alternative to this section ☐

Section 13 - Tanks

Construction

The main water tank shall be mounted on a polypropylene sub frame separate of the body. This frame shall be the mounting point for the entire pumping unit including the tank and pump.

The tank shall be a 300 gallon plastic copolymer water tank with a limited lifetime warrantee and shall be manufactured by United Plastic Fabricating, Inc.

The plastic copolymer tank shall be constructed of ½" thick high impact copolymer sheet stock. The material shall be of a certified, high quality, non-corrosive, stress relieved thermoplastic, black in color, and UV resistant for maximum protection. Points and seams are to be fully hot gas and extrusion welded and electronically tested for maximum strength. The unit shall incorporate transverse partitions manufactured of 3/8" copolymer which will interlock with a longitudinal partition constructed of ½" copolymer. All swash partition shall be so designed to allow for maximum water and air flow between compartments and are fully welded to each other as well as the inside of the tank.

The tank shall be equipped with a combination vent / overflow and manual fill tower. The fill tower shall be constructed of ½" copolymer and shall have a dimension of 8" x 10" x 8" high with copolymer dowel hinged shoebox cover. The tower shall be located in the rear corner of the tank and shall have a removable copolymer screen with handle. Inside the fill tower approximately 4" down from the top shall be fastened a combination vent / overflow pipe which shall be standard schedule 40 copolymer pipes with minimum ID of 3" designed to run vertically through the tank.

The tank cover shall be constructed of ½" copolymer, black in color, UV resistant and welded to the frame flush mounted. The cover shall incorporate lifting-hold downs consisting of 2" copolymer dowels. The dowels shall be drilled and tapped to accommodate a lifting eye with a minimum security factor of 3 to 1 spaced a maximum of 30" apart. These dowels shall be welded to the transverse partitions and extend throughout the covers to assist in minimizing cover flex during normal operation.

Above section bid exactly as written :

Section not provided

Bidder is offering an alternative to this section

Sump

There shall be one (1) sump provided in the floor of the tank constructed of ½" copolymer. The tank shall have a suction of the internal draw type and will incorporate a 3" F.N.P.T. dip tube with an anti-swirl plate located directly above the sump. The sump shall be a minimum of 10" x 10" X 2" deep. The sump shall have a 3" F.N.P.T. threaded outlet on the bottom outside wall as a drain and clean out. The drain in the sump shall be readily accessible from the underside of the truck.

Above section bid exactly as written :

Section not provided

Bidder is offering an alternative to this section

Outlets

There shall be two (2) standard tank connections on the rear wall of the tank. One (1) 3" pipe stub tank to pump suction connections and one (1) 1 1/2" F.N.P.T. tank fill fitting.

Above section bid exactly as written :

Section not provided

Bidder is offering an alternative to this section

Mounting

The copolymer tank shall have provisions on the tank for mounting both front and rear. The mount shall be 1/2" copolymer and shall incorporate predrilled bent "L" shaped angle which allow for three (3) 1/2" bolts to be inserted through each tab for the purpose of securing the tank to the skid base.

Above section bid exactly as written :

Section not provided

Bidder is offering an alternative to this section

Section 14 – Water Pump

Water Pump – Diesel Driven

The pump shall be permanently mounted to the polypropylene sub frame on properly matched frequency true isolation mounts.

Above section bid exactly as written :

Section not provided

Bidder is offering an alternative to this section

Pump Performance

The pump / engine shall perform to the standards of NFPA 1906 100 PSI pressure pump rating. Typical pump performance from five (5) foot draft at sea level shall be: 160 GPM @ 125 PSI, 200 GPM @ 100 PSI and 270 GPM @ 50 PSI.

Above section bid exactly as written :

Section not provided

Bidder is offering an alternative to this section

Pump

The pump unit shall be either a Hale or Waterous the pump body shall be made of alloy aluminum castings coupled together with a stainless steel band clamp with an O-ring seal which allows quick pump volute removal for servicing. The pump end shall be factory hydrostatically tested to 250 PSI for 10 minutes. The impeller shall be bronze. The renewable clearance rings shall be made of anodic plated bronze to inhibit galvanic corrosion. The impeller shall be 8.75 inches in diameter and designed with a sleeve back end to prevent water from coming in contact with the engine shaft. The pump shaft seal shall be an automatically adjusting, maintenance free, mechanical type. The pump body shall be equipped with a petcock drain valve and extended to a point below the mounting surface of the pump.

Above section bid exactly as written :

☐

Section not provided

☐

Bidder is offering an alternative to this section

☐

Pump Engine

KUBOTA 21 HP DIESEL ENGINE:

ENGINE

The engine shall be a Kubota 21 HP liquid cooled diesel engine. The engine shall be 4-cycle, 3 cylinder with a 54.8 cu in displacement.

FUEL TANK

The fuel system shall include a fuel tank.

CONTROLS

An illuminated control panel shall be provided at the rear of the unit. The control panel shall include the following controls: throttle, choke, start and stop, along with a discharge pressure gauge.

Above section bid exactly as written :

☐

Section not provided

☐

Bidder is offering an alternative to this section

☐

Priming Pump

The priming pump shall be a positive displacement, oil-less rotary vane electric motor driven pump conforming to the requirement of NFPA 1906. The pump body shall be manufactured of heat treated anodized aluminum for wear and corrosion resistance. The pump shall be capable of producing a minimum 17 Hg vacuum at 2000 feet above sea level. The electric motor shall be a 12 VDC totally enclosed unit. The priming pump shall not require lubrication. The priming pump shall be operated by a single push-pull control valve mounted on the pump operator panel. The control valve shall be of all bronze construction. The exhaust port of the primer shall be plumbed to divert water to a point below the pump mounting surface.

Above section bid exactly as written :

☐

Section not provided

☐

Bidder is offering an alternative to this section ☐

Section 15 – Piping, Outlets and Inlets

Piping and Manifolds

All the pump piping shall be stainless steel, brass or high pressure hose. The piping shall be configured to allow the pump operator to easily and effectively operate the controls. All piping shall be hydrostatically tested to 300 psi for a period of 10 minutes to ensure integrity. Drains shall be provided for all piping at the low points.

Above section bid exactly as written : ☐

Section not provided ☐

Bidder is offering an alternative to this section ☐

Ball Valves

All valves 1" and larger shall be the quarter turn ball type cast of bronze with full flow capability. The seats shall be nylon and shall be replaceable. Valves under 1 ¼" in size shall be commercial type ball valves. Valves 1 ¼" and larger that are required to open or close under at least 20 psi pressure are to be swing out style with lever type handles and must be of a torque lock design. The tank to pump line shall be a commercial type full flow valve.

Above section bid exactly as written : ☐

Section not provided ☐

Bidder is offering an alternative to this section ☐

Discharges

At the rear of the truck at the pump area there shall be the following discharges:

- (1) 2 ½" gated discharge with a 2 ½ x 1 ½ NST reducer and a 1 ½" cap with chain
- (1) 1 ½" gated pump to tank fill line with high pressure hose to tank
- (1) 1 ½" discharge with male NST adapters, caps and chains
- (1) 1" outlet plugged for future port
- (1) ¼" pump cooling line

Above section bid exactly as written : ☐

Section not provided ☐

Bidder is offering an alternative to this section ☐

Suction Connections

- (1) 2 ½" tank to pump line with hump connection at tank
- (1) 2 ½" overboard suction with 2 ½" valve, 2 ½ NST female swivel connection and a plug with chain

Above section bid exactly as written :	<input type="checkbox"/>
Section not provided	<input type="checkbox"/>
Bidder is offering an alternative to this section	<input type="checkbox"/>

Direct Tank

There shall be a 1 ½" gated direct fill line with a 1 ½ NSTF swivel inlet and plug to allow for direct filling of the water tank.

Above section bid exactly as written :	<input type="checkbox"/>
Section not provided	<input type="checkbox"/>
Bidder is offering an alternative to this section	<input type="checkbox"/>

Pump Panel

The pump panel will be mounted behind the pump in a neat organized manner to allow for easy operation of the pump and controls. The panel will provide a mounting surface for the water level indicator, foam level indicator, pump house meter and main discharge pressure gauge. A pump area work light will be installed above the pump panel.

Above section bid exactly as written :	<input type="checkbox"/>
Section not provided	<input type="checkbox"/>
Bidder is offering an alternative to this section	<input type="checkbox"/>

Water Level Gauge

The water tank shall have a 12 volt electric type water level gauge.

Above section bid exactly as written :	<input type="checkbox"/>
Section not provided	<input type="checkbox"/>
Bidder is offering an alternative to this section	<input type="checkbox"/>

Fuel and Electric Power Disconnect

Provide a quick disconnect for the diesel fuel supply and a quick disconnect for the 12 volt battery power. These connections must be easy to disconnect so the skid can be easily removed from the top of the body.

Above section bid exactly as written :	<input type="checkbox"/>
Section not provided	<input type="checkbox"/>
Bidder is offering an alternative to this section	<input type="checkbox"/>

Lifting Provisions

There shall be points on the tank and pump rated for lifting the unit from the body using an overhead crane. A custom spreader bar designed to attach to three lift points shall be provided and shall provide a single lift point.

Above section bid exactly as written :

Section not provided

Bidder is offering an alternative to this section

Work Lighting

There shall be two (2) LED work lights in the pump area to illuminate all controls and piping. These shall be switched at the pump panel.

Above section bid exactly as written :

Section not provided

Bidder is offering an alternative to this section

Section 16 – Paint Lettering and Striping

PPG Body Finish Procedure

- All exposed metal surfaces not chrome plated or polished will be thoroughly cleaned and prepared.
- All removable items, i.e., brackets, compartment doors, etc., will be removed and painted separately to insure finish paint behind mounted items.
- Compartment interiors will be finished using a dual action sander with 80 grit abrasive paper.
- The unit will be "masked" to prevent painting unwanted areas.
- Exterior surface scratches and blemishes are filled with body putty and sanded down along with primer surfaces.
- Complete unit is then cleaned, blown free of dust, washed with thinner and wiped with tack cloth. Non-sanding primer is applied and when dry, the unit is sprayed with three (3) coats of finish urethane automotive paint. All loose parts are treated in the same manner.
- All irregularities in painted surfaces will be rubbed down before the application of the finishing coats.
- The color of the apparatus will be Red. The body shall be painted Red to match the cab on the chassis. Color to be approved by the Hudson Fire Department.

Above section bid exactly as written :

Section not provided

Bidder is offering an alternative to this section

Touch-Up Paint

One ½ pint container of white touch-up paint shall be provided for each color applied to the apparatus.

Above section bid exactly as written :	<input type="checkbox"/>
Section not provided	<input type="checkbox"/>
Bidder is offering an alternative to this section	<input type="checkbox"/>

Cab and Body Reflective Stripe

The reflective striping shall be provided by the local dealer. A cab and body white Scotchlite reflective stripe, consisting of a 4" minimum in width, shall be applied extending in as straight a line as possible from the front fenders of the cab down the left and right sides of the body and across the rear of the body meeting minimum NFPA requirements. A chevron pattern of red and yellow shall be applied to the rear of the body as practical.

Above section bid exactly as written :	<input type="checkbox"/>
Section not provided	<input type="checkbox"/>
Bidder is offering an alternative to this section	<input type="checkbox"/>

Lettering and Seal

Up to 60 3" vinyl letters shall be arranged per the fire department. Any town seals or special artwork shall be provided by the town.

Above section bid exactly as written :	<input type="checkbox"/>
Section not provided	<input type="checkbox"/>
Bidder is offering an alternative to this section	<input type="checkbox"/>

Section 17 – Owner's Manual

A three-ring binder shall be provided with the completed apparatus that contains at a minimum the following information:

- All "as wired" schematics for the added 12 VDC system
- Operational and troubleshooting procedures
- Paint and key codes
- All data, operations' manuals, warranty information and schematics as supplied by equipment options manufacturers
- Body, frame and paint warranty documents.

The manufacturers and applicable dealer's telephone numbers and contact person names shall be supplied within the binder.

Above section bid exactly as written :	<input type="checkbox"/>
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Section not provided

☐

Bidder is offering an alternative to this section

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Section 18 – Warranty

Workmanship Warranty

The workmanship of the body builder shall be warranted for a period of one (1) year from the date of delivery. Brand name components used in the construction of the up-fitter's package shall carry their own manufactures warranty as advertised. Any travel costs, transportation costs or expenses due to loss of use are not the responsibility of _____.

Above section bid exactly as written :

☐

Section not provided

☐

Bidder is offering an alternative to this section

☐

Stainless Steel Body Warranty

The body shall be warranted for a period of 30 years from the date of delivery against defects in workmanship or faulty materials. Warranty documentation shall be provided by the successful bidder and a copy of the warranty shall be included in the owner's manual for the completed vehicle. Any travel costs, transportation costs or expenses due to loss of use are not the responsibility of _____.

Above section bid exactly as written :

☐

Section not provided

☐

Bidder is offering an alternative to this section

☐

Paint Finish Warranty

The paint work provided by the body builder shall be warranted for a period of five (5) years. This is a limited warranty which covers peeling or blistering due to improper preparation or damage caused by a failure of the body structure. Items added by another party after the acceptance of the body such as customer installed brackets, etc. are not covered by this warranty. Any travel costs, transportation costs, or expenses due to loss of use are not the responsibility of _____.

Above section bid exactly as written :

☐

Section not provided

☐

Bidder is offering an alternative to this section

☐

Tank Warranty

The water and foam tanks shall be covered by a manufacturer's limited lifetime warranty at the time of purchase.

Above section bid exactly as written :	<input type="checkbox"/>
Section not provided	<input type="checkbox"/>
Bidder is offering an alternative to this section	<input type="checkbox"/>

Cab Chassis Warranty

See the Ford chassis section of this bid.

Above section bid exactly as written :	<input type="checkbox"/>
Section not provided	<input type="checkbox"/>
Bidder is offering an alternative to this section	<input type="checkbox"/>

Section 19 – Options

Option #1 – Enclosed Cargo Area with Heater

The rear of the body between the side compartments shall be enclosed with removable panels and a vinyl rear flap to allow heat to be contained in the pump area when the skid is installed. The panels shall be easily removable to allow the skid to be removed from the body. Heating provisions shall be provided which shall keep the temperature in the enclosed area above freezing.

Above section bid exactly as written :	<input type="checkbox"/>
Section not provided	<input type="checkbox"/>
Bidder is offering an alternative to this section	<input type="checkbox"/>

Option #2 – Heated Compartment

An electric compartment heater shall be provided in a compartment as designated by the fire department.

Above section bid exactly as written :	<input type="checkbox"/>
Section not provided	<input type="checkbox"/>
Bidder is offering an alternative to this section	<input type="checkbox"/>

Option #3 – 12 and 120 Volt Power in a Compartment

A 120 volt power strip shall be located in a compartment to provide 120 AC power for chargers, etc. The power strip shall be powered by the shoreline plug. A fused 20 amp power point shall be provided in this compartment also for future installation on e12VDC components.

Above section bid exactly as written :	<input type="checkbox"/>
Section not provided	<input type="checkbox"/>
Bidder is offering an alternative to this section	<input type="checkbox"/>

Option #4 – Front Bumper / Grill Guard / Receiver

A push bar / grill guard and full brush guard shall be mounted on the front bumper of the chassis. It shall be powder coated black. A Warn 10,000 lb winch shall be located within the push bar. It shall be fitted with a fairlead and shall have a remote pennant control for the winch. The winch shall be wired directly to the battery for maximum performance.

Above section bid exactly as written :	<input type="checkbox"/>
Section not provided	<input type="checkbox"/>
Bidder is offering an alternative to this section	<input type="checkbox"/>

Option #5 – Mounting Allowance

The bidder shall provide eight (8) hours of labor to mount any loose equipment bracketry supplied by the Hudson Fire Department. This does not include materials other than standard stainless hardware.

Above section bid exactly as written :	<input type="checkbox"/>
Section not provided	<input type="checkbox"/>
Bidder is offering an alternative to this section	<input type="checkbox"/>

Option #6 – Body Construction

The bidder may choose to submit a proposal to construct the body out of aluminum. It is the expectation that if this construction method is utilized an appropriate hinge style door will be clearly specified including handles, hinges, gasketing and closure.

Above section bid exactly as written :	<input type="checkbox"/>
Section not provided	<input type="checkbox"/>
Bidder is offering an alternative to this section	<input type="checkbox"/>

Option #7 – Passenger Compartment Storage Unit

The bidder shall construct a storage unit to replace the rear seating of the interior of the passenger compartment. The storage unit shall consist of square storage units that will hold PPE, SCBA, Spare SCBA bottles, medical equipment and other related items. Exact design and dimensions will be determined at the pre construction meeting.

Above section bid exactly as written :	<input type="checkbox"/>
Section not provided	<input type="checkbox"/>
Bidder is offering an alternative to this section	<input type="checkbox"/>

Option #8 – Trade In

The bidder shall price the trade in value of a 1989 International Ranger Rescue truck. This shall be listed as a separate line in the vendor's proposal so value is clearly identified by the Town of Hudson.

End of Specifications